

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0652.1670002/JUK/JCI	APPLICATION NO. 10/773,302
	FIRST NAMED INVENTOR Jenuwein <i>et al.</i>	
	FILING DATE February 9, 2004	ART UNIT 1651

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA1	5,972,608	10/26/1999	Peterson <i>et al.</i>	435	6	08/27/1997
AB1	6,555,329 B2	04/29/2003	Jenuwein <i>et al.</i>	435	15	06/08/2001
AC1	6,689,583 B1	02/10/2004	Jenuwein <i>et al.</i>	435	69.1	06/09/2000
AD1	2002/0039776 A1	04/04/2002	Jenuwein <i>et al.</i>	435	193	06/08/2001
AE1	2002/0164620 A1	11/07/2002	Peters <i>et al.</i>	435	6	01/22/2002
AF1	2003/0087368 A1	05/08/2003	Maupin-Furlow <i>et al.</i>	435	69.1	04/30/2002
AG1	2003/0104599 A1	06/05/2003	Jenuwein <i>et al.</i>	435	193	11/25/2002
AH1	2003/0157532 A1	08/21/2003	Jenuwein <i>et al.</i>	435	6	12/20/2002
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL1	WO 95/15749	06/15/1995	<del>WIPO</del> WO	—	—	Yes No
AM1	DE 195 16 776	11/14/1996	Germany	—	—	X Yes No
AN1	WO 98/27994	07/02/1998	<del>WIPO</del> WO	—	—	Yes No
AO1	WO 98/49190	11/05/1998	<del>WIPO</del> WO	—	—	Yes No
AP1	WO 00/48627	08/24/2000	<del>WIPO</del> WO	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	1	Aagaard, L., <i>et al.</i> , "Functional mammalian homologues of the <i>Drosophila</i> PEV-modifier <i>Su(var)3-9</i> encode centromere-associated proteins which complex with the heterochromatin component M31," <i>EMBO J.</i> 18:1923-1938, Oxford University Press (April 1999)
AS	1	Aagaard, L., <i>et al.</i> , "Mitotic phosphorylation of SUV39H1, a novel component of active centromeres, coincides with transient accumulation at mammalian centromeres," <i>J. Cell Sci.</i> 113:817-829, The Company of Biologists Ltd. (March 2000; Published on the WWW on 14 February 2000)
AT	1	Aasland, R. and Stewart, A.F., "The chromo shadow domain, a second chromo domain in heterochromatin-binding protein 1, HP1," <i>Nucleic Acids Res.</i> 23:3168-3173, Oxford University Press (August 1995)

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<input checked="" type="checkbox"/>	AL2	EP 1 227 160 A1	07/31/2002	WIPO EP	—	—	Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<input checked="" type="checkbox"/>	AR	2	Adams, B., <i>et al.</i> , "Pax-5 encodes the transcription factor BSAP and is expressed in B lymphocytes, the developing CNS, and adult testis," <i>Genes &amp; Dev.</i> 6:1589-1607, Cold Spring Harbor Laboratory Press (1992)
<input checked="" type="checkbox"/>	AS	2	Adams, R.R., <i>et al.</i> , "INCENP binds the Aurora-related kinase AIRK2 and is required to target it to chromosomes, the central spindle and cleavage furrow," <i>Curr. Biol.</i> 10:1075-1078, Elsevier Science Ltd. (September 2000)
<input checked="" type="checkbox"/>	AT	2	Ainsztein, A.M., <i>et al.</i> , "INCENP Centromere and Spindle Targeting: Identification of Essential Conserved Motifs and Involvement of Heterochromatin Protein HP1," <i>J. Cell Biol.</i> 143:1763-1774, The Rockefeller University Press (December 1998)

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
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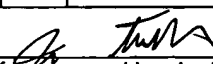
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	AR	3	Alkema, M.J., <i>et al.</i> , "Transformation of axial skeleton due to overexpression of <i>bmi-1</i> in transgenic mice," <i>Nature</i> 374:724-727, Nature Publishing Group (April 1995)
	AS	3	Allshire, R.C., <i>et al.</i> , "Mutations derepressing silent centromeric domains in fission yeast disrupt chromosome segregation," <i>Genes &amp; Dev.</i> 9:218-233, Cold Spring Harbor Laboratory Press (January 1995)
	AT	3	Altschul, S.F., <i>et al.</i> , "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucl. Acids Res.</i> 25:3389-3402, Oxford University Press (September 1997)


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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>4</u>	Ambrose, W.P., <i>et al.</i> , "Detection System for Reaction-Rate Analysis in a Low-Volume Proteinase-Inhibition Assay," <i>Anal. Biochem.</i> 263:150-157, Academic Press (1998)
	AS	<u>4</u>	Baksa, K., <i>et al.</i> , "Mutations in the Protein Phosphatase 1 Gene at 87B Can Differentially Affect Suppression of Position-Effect Variegation and Mitosis in <i>Drosophila melanogaster</i> ," <i>Genet.</i> 135:117-125, The Genetics Society of America (1993)
	AT	<u>4</u>	Ball, L.J., <i>et al.</i> , "Structure of the chromatin binding (chromo) domain from mouse modifier protein 1," <i>EMBO J.</i> 16:2473-2481, Oxford University Press (May 1997)

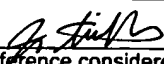
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
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>5</u>	Bannister, A.J., <i>et al.</i> , "Selective recognition of methylated lysine 9 on histone H3 by the HP1 chromo domain," <i>Nature</i> 410:120-124, Nature Publishing Group (March 2001)
	AS	<u>5</u>	Barrett, A.J. and Kirschke, H., "Cathepsin B, Cathepsin H, and Cathepsin L," <i>Methods Enzym.</i> 80:535-561, Academic Press (1981)
	AT	<u>5</u>	Bassett, D.E., Jr., <i>et al.</i> , "Comparative genomics, genome cross-referencing and XREFdb," <i>Trends Genet.</i> 11:372-373, Elsevier Science Ltd. (September 1995)


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	AR	6	Baudat, F., <i>et al.</i> , "Chromosome Synapsis Defects and Sexually Dimorphic Meiotic Progression in Mice Lacking Spo11" <i>Mol. Cell.</i> 6:989-998, Cell Press (November 2000)
	AS	6	Bernard, P., <i>et al.</i> , "Fission Yeast Bub1 is a Mitotic Centromere Protein Essential for the Spindle Checkpoint and the Preservation of Correct Ploidy through Mitosis," <i>J. Cell Biol.</i> 143:1775-1787, The Rockefeller University Press (December 1998)
	AT	6	Boulianne, G.L., <i>et al.</i> , "Production of functional chimaeric mouse/human antibody," <i>Nature</i> 312:643-646, Macmillan Magazines Ltd. (1984)




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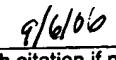
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
	AR	Z	Brown, A.M., <i>et al.</i> , "Biotinylated and Cysteine-Modified Peptides as Useful Reagents for Studying the Inhibition of Cathepsin G," <i>Anal. Biochem.</i> 217:139-147, Academic Press, Inc. (February 1994)
	AS	Z	Brunk, B.P., <i>et al.</i> , "Drosophila genes <i>Posterior Sex Combs</i> and <i>Suppressor two of zeste</i> encode proteins with homology to the murine <i>bmi-1</i> oncogene," <i>Nature</i> 353:351-353, Nature Publishing Group (1991)
	AT	Z	Buck, S.W. and Shore, D., "Action of a RAP1 carboxy-terminal silencing domain reveals an underlying competition between <i>HMR</i> and telomeres in yeast," <i>Genes &amp; Dev.</i> 9:370-394, Cold Spring Harbor Laboratory Press (February 1995)

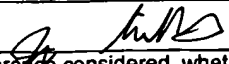
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	AR	8	Bunick, D., <i>et al.</i> , "Transcription of the testis-specific mouse protamine 2 gene in a homologous <i>in vitro</i> transcription system," <i>Proc. Natl. Acad. Sci. USA</i> , 87: 891-895, National Academy of Sciences (1990)
	AS	8	Buonomo, S.B.C., <i>et al.</i> , "Disjunction of Homologous Chromosomes in Meiosis I Depends on Proteolytic Cleavage of the Meiotic Cohesin Rec8 by Separin," <i>Cell</i> 103:387-398, Cell Press (October 2000)
	AT	8	Burgoyne, P.S., "Genetic Homology and Crossing Over in the X and Y Chromosomes of Mammals," <i>Hum. Genet.</i> 61:85-90, Springer-Verlag (1982)

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FORM PTO-1449  <b>INFORMATION DISCLOSURE STATEMENT</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 0652.1670002/JUK/JCI</td> <td style="width: 50%;">APPLICATION NO. 10/773,302</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Jenuwein <i>et al.</i></td> </tr> <tr> <td>FILING DATE February 9, 2004</td> <td>ART UNIT 1651</td> </tr> </table>	ATTY. DOCKET NO. 0652.1670002/JUK/JCI	APPLICATION NO. 10/773,302	FIRST NAMED INVENTOR Jenuwein <i>et al.</i>		FILING DATE February 9, 2004	ART UNIT 1651
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	AR	9	Cai, J. <i>et al.</i> , "Reconstitution of human replication factor C from its five subunits in baculovirus-infected insect cells," <i>Proc. Natl. Acad. Sci. USA</i> 93:12896-12901, National Academy of Sciences (November 1996)
	AS	9	Calenda, A., <i>et al.</i> , "The meiosis-specific <i>Xmr</i> gene product is homologous to the lymphocyte Xlr protein and is a component of the XY body," <i>EMBO J.</i> 13:100-109, Oxford University Press (January 1994)
	AT	9	Cerretani, M., <i>et al.</i> , "A High-Throughput Radiometric Assay for Hepatitis C Virus NS3 Protease," <i>Anal. Biochem.</i> 266:192-197, Academic Press (January 1999)

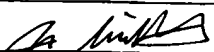
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	AR	<u>10</u>	Chen, D., <i>et al.</i> , "Regulation of Transcription by a Protein Methyltransferase," <i>Science</i> 284:2174-2177, American Association for the Advancement of Science (June 1999)
	AS	<u>10</u>	Ciosk, R., <i>et al.</i> , "An ESP1/PDS1 Complex Regulates Loss of Sister Chromatid Cohesion at the Metaphase to Anaphase Transition in Yeast," <i>Cell</i> 93:1067-1076, Cell Press (June 1998)
	AT	<u>10</u>	Clark, D.A., <i>et al.</i> , "Protease Inhibitors Suppress In Vitro Growth of Human Small Cell Lung Cancer," <i>Peptides</i> 14:1021-1028, Pergamon Press, Ltd. (1993)


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	AR	11	Cléard, F. <i>et al.</i> , "SU(VAR) 3-7, a <i>Drosophila</i> heterochromatin-associated protein and companion of HP1 in the genomic silencing of position-effect variegation," <i>The EMBO Journal</i> 16:5280-5288, Oxford University Press (September 1997)
	AS	11	Cobb, J., <i>et al.</i> , "Meiotic events at the centromeric heterochromatin: histone H3 phosphorylation, topoisomerase IIa localization and chromosome condensation," <i>Chromosoma</i> 108:412-425, Springer-Verlag (December 1999)
	AT	11	Cohen-Fix, O. <i>et al.</i> , "Anaphase initiation in <i>Saccharomyces cerevisiae</i> is controlled by the APC-dependent degradation of the anaphase inhibitor Pds1p," <i>Genes &amp; Dev.</i> 10:3081-3093, Cold Spring Harbor Laboratory Press (December 1996)




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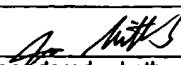
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>12</u>	Cortez, D. and Elledge, S.J., "Conducting the mitotic symphony," <i>Nature</i> 406:354-356, Nature Publishing Group (July 2000)
	AS	<u>12</u>	Csank, A. and Henikoff, S., "Genetic modification of heterochromatic association and nuclear organization in <i>Drosophila</i> ," <i>Nature</i> 381:529-531, Nature Publishing Group (June 1996)
	AT	<u>12</u>	Cutts, S.M., <i>et al.</i> , "Defective chromosome segregation, microtubule bundling and nuclear bridging in inner centromere protein gene ( <i>Incenp</i> )-disrupted mice," <i>Hum. Mol. Genet.</i> 8:1145-1155, Oxford University Press (July 1999)

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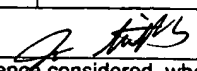
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	<u>13</u>	Czvitkovich, S., <i>et al.</i> , "Over-expression of the SUV39H1 histone methyltransferase induces altered proliferation and differentiation in transgenic mice," <i>Mech. Dev.</i> 107:141-153, Elsevier Science Ireland Ltd. (September 2001)				
	AS	<u>13</u>	DeCamillis, M., <i>et al.</i> , "The <i>polyhomeotic</i> gene of <i>Drosophila</i> encodes a chromatin protein that shares polytene chromosome-binding sites with <i>Polycomb</i> ," <i>Genes &amp; Dev.</i> 6:223-232, Cold Spring Harbor Laboratory Press (1992)				
	AT	<u>13</u>	Dernburg, A.F., <i>et al.</i> , "Perturbation of Nuclear Architecture by Long-Distance Chromosome Interactions," <i>Cell</i> 85:745-759, Cell Press (May 1996)				
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	14	Dernburg, A.F., <i>et al.</i> , "Direct Evidence of a Role for Heterochromatin in Meiotic Chromosome Segregation," <i>Cell</i> 86:135-146, Cell Press (July 1996)
	AS	14	De Rubertis, F. <i>et al.</i> , "The histone deacetylase RPD3 counteracts genomic silencing in <i>Drosophila</i> and yeast," <i>Nature</i> 384:589-591, Nature Publishing Group (December 1996)
	AT	14	de Vries, S.S., <i>et al.</i> , "Mouse MutS-like protein Msh5 is required for proper chromosome synapsis in male and female meiosis," <i>Genes &amp; Dev.</i> 13:523-531, Cold Spring Harbor Laboratory Press (March 1999)

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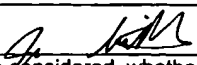
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	15	Dominguez, A., <i>et al.</i> , "hpttg, a human homologue of rat pttg, is overexpressed in hematopoietic neoplasms. Evidence for a transcriptional activation function of hPTTG," <i>Oncogene</i> 17:2187-2193, Nature Publishing Group (October 1998)				
	AS	15	Dougherty, W., <i>et al.</i> , "Molecular Genetic Analysis of a Plant Virus Polyprotein Cleavage Site: A Model," <i>Virology</i> 171:356-364, Academic Press (1989)				
	AT	15	Dugaiczky, A., <i>et al.</i> , "Cloning and Sequencing of a Deoxyribonucleic Acid Copy of Glyceraldehyde-3-phosphate Dehydrogenase Messenger Ribonucleic Acid Isolated from Chicken Muscle," <i>Biochemistry</i> 22:1605-1613, American Chemical Society (1983)				
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	AR	<u>16</u>	Eissenberg, J.C., <i>et al.</i> , "The Heterochromatin-Associated Protein HP-1 Is an Essential Protein in Drosophila With Dosage-Dependent Effects on Position-Effect Variegation," <i>Genetics</i> 131:345-352, Genetics Society of America (1992)
	AS	<u>16</u>	Ekwall, K., <i>et al.</i> , "Mutations in the fission yeast silencing factors <i>clr4+</i> and <i>rik1+</i> disrupt the localisation of the chromo domain protein Swi6p and impair centromere function," <i>J. Cell Sci.</i> 109:2637-2648, The Company of Biologists Limited (November 1996)
	AT	<u>16</u>	Ekwall, K., <i>et al.</i> , "Transient Inhibition of Histone Deacetylation Alters the Structural and Functional Imprint at Fission Yeast Centromeres," <i>Cell</i> 91:1021-1032, Cell Press (December 1997)




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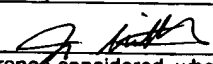


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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	17	Elbashir, S.M., <i>et al.</i> , "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," <i>Nature</i> 411:494-498, Nature Publishing Company (May 2001)
	AS	17	Epstein, C.B., and Cross, F.R. "CLB5: a novel B cyclin from budding yeast with a role in S phase," <i>Genes &amp; Dev.</i> 6:1695-1706, Cold Spring Harbor Laboratory Press (1992)
	AT	17	Faleiro, L., <i>et al.</i> , "Multiple species of CPP32 and Mch2 are the major active caspases present in apoptotic cells," <i>EMBO J.</i> 16:2271-2281, Oxford University Press (May 1997)


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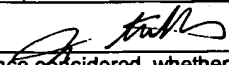
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>18</u>	Foon, K.A., and Gale, R.P. "Chronic Lymphoid Leukemias," in: <i>Blood: Principles and Practice of Hematology</i> , Handin, R.I., <i>et al.</i> , eds., J.B. Lippincott Company, Philadelphia, PA, pp. 783-811 (January 1995)
	AS	<u>18</u>	Friedman, L.S., <i>et al.</i> , "The Search for <i>BRCA1</i> ," <i>Cancer Res.</i> 54:6374-6382, American Association for Cancer Research (December 1994)
	AT	<u>18</u>	Friedman, L.S., <i>et al.</i> , "22 Genes from Chromosome 17q21: Cloning, Sequencing, and Characterization of Mutations in Breast Cancer Families and Tumors," <i>Genomics</i> 25:256-263, Academic Press (January 1995)

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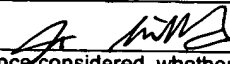
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	AR	19	Funabiki, H., <i>et al.</i> , "Cut2 proteolysis required for sister-chromatid separation in fission yeast," <i>Nature</i> 381:438-441, Nature Publishing Company (May 1996)				
	AS	19	Garzino, V., <i>et al.</i> , "Cell lineage-specific expression of <i>modulo</i> , a dose-dependent modifier of variegation in <i>Drosophila</i> ," <i>EMBO J.</i> 11:4471-4479, Oxford University Press (1992)				
	AT	19	Gentz, R., <i>et al.</i> , "Bioassay for trans-activation using purified human immunodeficiency virus <i>tat</i> -encoded protein: Trans-activation requires mRNA synthesis," <i>Proc. Natl. Acad. Sci. USA</i> 86:821-824, National Academy of Sciences (1989)				
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	AR	<u>20</u>	Geraghty, M.T., <i>et al.</i> , "The Isolation of cDNAs from OATL1 at Xp11.2 Using a 480-kb YAC," <i>Genomics</i> 16:440-446, Academic Press, Inc. (1993)
	AS	<u>20</u>	Gershkovich, A.A. and Kholodovych, V.V., "Fluorogenic substrates for proteases based on intramolecular fluorescence energy transfer (IFETS)," <i>J. Biochem. Biophys. Methods</i> 33:135-162, Elsevier Science B.V. (December 1996)
	AT	<u>20</u>	Gibbons, R.J., <i>et al.</i> , "Mutations in a Putative Global Transcriptional Regulator Cause X-Linked Mental Retardation with $\alpha$ -Thalassemia (ATR-X Syndrome)," <i>Cell</i> 80:837-845, Cell Press (March 1995)


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	AR	21	Gietz, R.D. and Sugino, A., "New yeast- <i>Escherichia coli</i> shuttle vectors constructed with in vitro mutagenized yeast genes lacking six-base pair restriction sites," <i>Gene</i> 74:527-534, Elsevier Science Publishers B.V. (1988)
	AS	21	Gmachl, M., <i>et al.</i> , "The RING-H2 finger protein APC11 and the E2 enzyme UBC4 are sufficient to ubiquitinate substrates of the anaphase-promoting complex," <i>Proc. Natl. Acad. Sci. USA</i> 97:8973-8978, National Academy of Sciences (August 2000)
	AT	21	Gray, N.M., <i>et al.</i> , "Discovery and Analysis of a Series of C <sub>2</sub> -Symmetric HIV-1 Proteinase Inhibitors Derived from Penicillin," <i>Anal. Biochem.</i> 216:89-96, Academic Press (January 1994)




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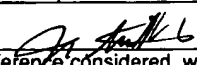
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	AR	<u>22</u>	Graziano, R.F., <i>et al.</i> , "Construction and Characterization of a Humanized Anti-γ-Ig Receptor Type I (FcγRI) Monoclonal Antibody," <i>J. Immunol.</i> 155: 4996-5002, American Association of Immunologists (November 1995)
	AS	<u>22</u>	Griffin, D.K., <i>et al.</i> , "Sex Ratio in Normal and Disomic Sperm: Evidence That the Extra Chromosome 21 Preferentially Segregates with Y Chromosome," <i>Am. J. Hum. Genet.</i> 59:1108-1113, The University of Chicago Press (November 1996)
	AT	<u>22</u>	Grunstein, M., "Yeast Heterochromatin: Regulation of Its Assembly and Inheritance by Histones," <i>Cell</i> 93:325-328, Cell Press (May 1998)

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<i>KL</i>	AR	<u>23</u>	Gu, Y., <i>et al.</i> , "The t(4;11) Chromosome Translocation of Human Acute Leukemias Fuses the ALL-1 Gene, Related to Drosophila trithorax, to the AF-4 Gene," <i>Cell</i> 71:701-708, Cell Press (1992)
<i>KL</i>	AS	<u>23</u>	Handel, M.A. and Hunt, P.A., "Sex-Chromosome Pairing and Activity during Mammalian Meiosis," <i>Bioessays</i> 14:817-22, John Wiley and Sons, Inc. (1992)
<i>KL</i>	AT	<u>23</u>	Hauf, S., <i>et al.</i> , "Cohesion Cleavage by Separase Required for Anaphase and Cytokinesis in Human Cells," <i>Science</i> 293:1320-1323, The American Association for the Advancement of Science (August 2001)

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>9/6/06</i>
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FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0652.1670002/JUK/JCI	APPLICATION NO. 10/773,302
	FIRST NAMED INVENTOR Jenuwein <i>et al.</i>	
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## U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>24</u>	Haupt, Y., <i>et al.</i> , "Novel Zinc Finger Gene Implicated as <i>myc</i> Collaborator by Retrovirally Accelerated Lymphomagenesis in Eμ- <i>myc</i> Transgenic Mice," <i>Cell</i> 65:753-763, Cell Press (1991)
	AS	<u>24</u>	Hawley, R.S., <i>et al.</i> , "There are Two Mechanisms of Achiasmate Segregation in <i>Drosophila</i> Females, One of Which Requires Heterochromatic Homology," <i>Dev. Genet.</i> 13:440-467, Wiley-Liss, Inc. (1993)
	AT	<u>24</u>	Hayden, J.H., <i>et al.</i> , "Kinetochore Capture Astral Microtubules During Chromosome Attachment to the Mitotic Spindle: Direct Visualization in Live Newt Lung Cells," <i>J. Cell Biol.</i> 111:1039-1045, The Rockefeller University Press (1990)

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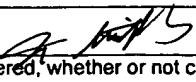
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)




	AR	<u>25</u>	Hendzel, M.J., <i>et al.</i> , "Mitosis-specific phosphorylation of histone H3 initiates primarily within pericentromeric heterochromatin during G2 and spreads in an ordered fashion coincident with mitotic chromosome condensation," <i>Chromosoma</i> 106:348-360, Springer-Verlag (November 1997)
	AS	<u>25</u>	Henikoff, S., "Position-effect Variegation in <i>Drosophila</i> : Recent Progress," in <i>Epigenetic Mechanisms of Gene Regulation</i> , Russo, V.E.A., <i>et al.</i> , eds., Cold Spring Harbor Laboratory Press, Plainview, New York, pp. 319-334 (December 1996)
	AT	<u>25</u>	Hobert, O., <i>et al.</i> , "Interaction of Vav with ENX-1, a Putative Transcriptional Regulator of Homeobox Gene Expression," <i>Mol. Cell. Biol.</i> 16:3066-3073, American Society for Microbiology (June 1996)

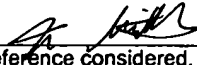
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	AO						Yes No
	AP						Yes No




OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>26</u>	Hsu, J.Y., <i>et al.</i> , "Mitotic Phosphorylation of Histone H3 is Governed by Ipl1/aurora Kinase and Glc7/PP1 Phosphatase in Budding Yeast and Nematodes," <i>Cell</i> 102:279-291, Cell Press (August 2000)
	AS	<u>26</u>	Ivanova, A.V., <i>et al.</i> , "The chromo and SET domains of the Ctr4 protein are essential for silencing in fission yeast," <i>Nat. Genet.</i> 19:192-195, Nature Publishing Company (June 1998)
	AT	<u>26</u>	Jacobson, S. and Pillus, L., "Modifying chromatin and concepts of cancer," <i>Curr. Opin. Genet. Dev.</i> 9:175-184, Current Biology Publications (April 1999)

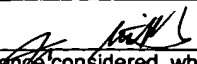
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	AM2						Yes No
	AN2						Yes No
	AO2						Yes No
	AP2						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	27	Jenuwein, T., <i>et al.</i> , "SET domain proteins modulate chromatin domains in eu- and heterochromatin," <i>Cell Mol. Life Sci.</i> 54:80-93, Birkhäuser Verlag (January 1998)
	AS	27	Jenuwein, T., "Re-SET-ting heterochromatin by histone methyltransferases," <i>Trends Cell Biol.</i> 11:266-273, Elsevier Science Ltd. (June 2001)
	AT	27	Jolley, M.E., "Fluorescence Polarization Assays for the Detection of Proteases and Their Inhibitors," <i>J. Biomol. Scr.</i> 1:33-38, Mary Ann Liebert, Inc. (Spring 1996)




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	AR	<u>28</u>	Jones, D.O., <i>et al.</i> , "Mammalian chromodomain proteins: their role in genome organisation and expression," <i>Bioessays</i> 22:124-137, John Wiley and Sons, Inc. (February 2000)
	AS	<u>28</u>	Jones, R.S., and Gelbart, W.M., "The <i>Drosophila</i> Polycomb-Group Gene <i>Enhancer of zeste</i> Contains a Region with Sequence Similarity to <i>trithorax</i> ," <i>Mol. Cell Biol.</i> 13:6357-6366, American Society for Microbiology (1993)
	AT	<u>28</u>	Kaitna, S., <i>et al.</i> , "Incenp and an Aurora-like kinase form a complex essential for chromosome segregation and efficient completion of cytokinesis," <i>Curr. Biol.</i> 10:1172-1181, Elsevier Science Ltd. (September 2000)

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	AN						Yes No
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	AP						Yes No

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	AR	<u>29</u>	Karpen, G. H., <i>et al.</i> , "Centric Heterochromatin and the Efficiency of Achiasmate Disjunction in <i>Drosophila</i> Female Meiosis," <i>Science</i> 273:118-122, American Association for the Advancement of Science (July 1996)
	AS	<u>29</u>	Karpen, G.H. and Allshire, R.C., "The case for epigenetic effects on centromere identity and function," <i>Trends Genet.</i> 13:489-496, Elsevier Science Ltd. (December 1997)
	AT	<u>29</u>	Kerrebrock, A.W., <i>et al.</i> , "Mei-S332, a <i>Drosophila</i> Protein Required for Sister-Chromatid Cohesion, Can Localize to Meiotic Centromere Regions," <i>Cell</i> 83:247-256, Cell Press (October 1995)

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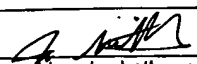
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)




	AR	<u>30</u>	Klein, F., <i>et al.</i> , "A Central Role for Cohesins in Sister Chromatid Cohesion, Formation of Axial Elements, and Recombination during Yeast Meiosis," <i>Cell</i> 98:91-103, Cell Press (July 1999)
	AS	<u>30</u>	Klein, R.R. and Houtz, R.L., "Cloning and developmental expression of pea ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit N-methyltransferase," <i>Plant Mol. Biol.</i> 27:249-261, Kluwer Academic Publishers (January 1995)
	AT	<u>30</u>	Köhler, G. and Milstein, C., "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> 256:495-497, Nature Publishing Company (1975)

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	AR	<u>31</u>	Koonin, E.V., <i>et al.</i> , "The chromo superfamily: new members, duplication of the chromo domain and possible role in delivering transcription regulators to chromatin," <i>Nucl. Acids Res.</i> 23:4229-4233, Oxford University Press (November 1995)
	AS	<u>31</u>	Kot, M.C. and Handel, M.A. "Spermatogenesis in XO, Sxr Mice: Role of the Y Chromosome," <i>J. Exp. Zool.</i> 256:92-105, Wiley-Liss, Inc. (1990)
	AT	<u>31</u>	Kramer, E.R., <i>et al.</i> , "Activation of the human anaphase-promoting complex by proteins of the CDC20/Fizzy family," <i>Curr. Biol.</i> 8:1207-1210, Current Biology Ltd. (October 1998)

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

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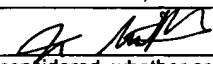
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	AP						Yes No

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	AR	32	Lachner, M., <i>et al.</i> , "Methylation of histone H3 lysine 9 creates a binding site for HP1 proteins," <i>Nature</i> 410:116-120, Nature Publishing Group (March 2001)
	AS	32	Laible, G., <i>et al.</i> , "Mammalian homologues of the <i>Polycomb</i> -group gene <i>Enhancer of zeste</i> mediate gene silencing in <i>Drosophila</i> heterochromatin and at <i>S. cerevisiae</i> telomeres," <i>EMBO J.</i> 16:3219-3232, Oxford University Press (June 1997)
	AT	32	Lamb, D.J. and Niederberger, C.S. "Animal Models that Mimic Human Male Reproductive Defects," <i>Urol. Clin. North Am.</i> 21:377-387, W.B. Saunders Co. (August 1994)

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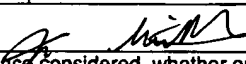
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>33</u>	Lammers, J.H.M., <i>et al.</i> , "The Gene Encoding a Major Component of the Lateral Elements of Synaptonemal Complexes of the Rat Is Related to X-Linked Lymphocyte-Regulated Genes," <i>Mol. Cell. Biol.</i> 14:1137-1146, American Society for Microbiology (February 1994)
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	AT	<u>33</u>	Larsson, J., <i>et al.</i> , "Mutations in the <i>Drosophila melanogaster</i> Gene Encoding S-adenosylmethionine Suppress Position-Effect Variegation," <i>Genetics</i> 143:887-896, The Genetics Society of America (June 1996)




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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	34	Lee, I.A., <i>et al.</i> , "Cloning and Expression of Human cDNA Encoding Human Homologue of Pituitary Tumor Transforming Gene," <i>Biochem. Mol. Biol. Intl.</i> 47:891-897, Taylor & Francis (May 1999)
	AS	34	Lengauer, C., <i>et al.</i> , "Genetic instability in colorectal cancers," <i>Nature</i> 386:623-627, Nature Publishing Group (April 1997)
	AT	34	Levine, L.M., <i>et al.</i> , "Measurement of Specific Protease Activity Utilizing Fluorescence Polarization," <i>Anal. Biochem.</i> 247:83-88, Academic Press (April 1997)




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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>35</u>	Lewis, J.D. and Tollervey, D., "Like Attracts Like: Getting RNA Processing Together in the Nucleus," <i>Science</i> 288:1385-1389, The American Association for the Advancement of Science (May 2000)
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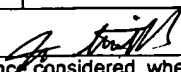
FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>	ATTY. DOCKET NO. 0652.1670002/JUK/JCI	APPLICATION NO. 10/773,302
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	36	Locke, J., <i>et al.</i> , "Dosage-Dependent Modifiers of Position Effect Variegation in Drosophila and a Mass Action Model That Explains Their Effect," <i>Genetics</i> 120:181-198, Genetics Society of America (1988)
	AS	36	Losada, A., <i>et al.</i> , "Identification of <i>Xenopus</i> SMC protein complexes required for sister chromatid cohesion," <i>Genes &amp; Dev.</i> 12:1986-1997, Cold Spring Harbor Laboratory Press (July 1998)
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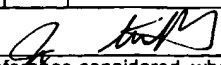
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	37	Matayoshi, E.D., <i>et al.</i> , "Novel Fluorogenic Substrates for Assaying Retroviral Proteases by Resonance Energy Transfer," <i>Science</i> 247:954-958, The American Association for the Advancement of Science (1990)
	AS	37	Matsuda, Y., <i>et al.</i> , "Genetic basis of X-Y chromosome dissociation and male sterility in interspecific hybrids," <i>Proc. Natl. Acad. Sci. USA</i> 88:4850-4854, National Academy of Sciences (1991)
	AT	37	McGrew, J.T., <i>et al.</i> , "Requirement for <i>ESP1</i> in the Nuclear Division of <i>Saccharomyces cerevisiae</i> ," <i>Mol. Biol. Cell</i> 3:1443-1454, American Society for Cell Biology (1992)




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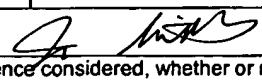
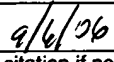
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	AR	38	McKay, M.J., <i>et al.</i> , "Sequence Conservation of the <i>rad21</i> <i>Schizosaccharomyces pombe</i> DNA Double-Strand Break Repair Gene in Human and Mouse," <i>Genomics</i> 36:305-315, Academic Press, Inc. (September 1996)
	AS	38	Meistrich, M.L. and Brock, W.A., "Proteins of the Meiotic Cell Nucleus," In <i>Meiosis</i> , Moens, P.B., ed., Academic Press, New York, N.Y., pp.333-353 (1987)
	AT	38	Melcher, M., <i>et al.</i> , "Structure-Function Analysis of SUV39H1 Reveals a Dominant Role in Heterochromatin Organization, Chromosome Segregation, and Mitotic Progression," <i>Mol. Cell. Biol.</i> 20:3728-3741, American Society for Microbiology (May 2000)




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	AR	39	Merdes, A. and De Mey, J., "The mechanism of kinetochore-spindle attachment and polewards movement analyzed in PtK <sub>2</sub> cells at the prophase-prometaphase transition," <i>Eur. J. Cell Biol.</i> 53:313-325, Wissenschaftliche verlagsgesellschaft mbH (1990)
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

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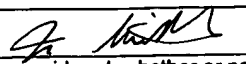
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	AR	40	Milner, C.M., and Campbell, R.D., "The G9a gene in the human major histocompatibility complex encodes a novel protein containing ankyrin-like repeats," <i>Biochem. J.</i> 290:811-818, Biochemical Society/Portland Press (1993)				
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	AT	40	Moens, P.B., "Histones H1 and H4 of surface-spread meiotic chromosomes," <i>Chromosoma</i> 104:169-174, Springer-Verlag (November 1995)				




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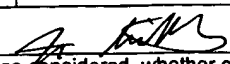


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	AR	41	Moore, D.P., <i>et al.</i> , "The Cohesion Protein MEI-S332 Localizes to Condensed Meiotic and Mitotic Centromeres until Sister Chromatids Separate," <i>J. Cell. Biol.</i> 140:1003-1012, The Rockefeller University Press (March 1998)
	AS	41	Motzkus, D., <i>et al.</i> , "M31, a murine homolog of Drosophila HP1, is concentrated in the XY body during spermatogenesis," <i>Cytogenet. Cell Genet.</i> 86:83-88, S. Karger AG (October 1999)
	AT	41	Murray, A.W., "Cell Cycle Extracts," <i>Meth. Cell Biol.</i> 36:581-605, Academic Press, Inc. (1991)




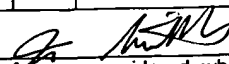
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	AR	<u>42</u>	Murray, M.G., <i>et al.</i> , "Inactivation of a yeast transactivator by the fused HIV-1 proteinase: a simple assay for inhibitors of the viral enzyme activity," <i>Gene</i> 134:123-128, Elsevier Science Publishers B.V. (1993)
	AS	<u>42</u>	Nagase, T., <i>et al.</i> , "Prediction of the Coding Sequences of Unidentified Human Genes. V. The Coding Sequences of 40 New Genes (KIAA0161-KIAA0200) Deduced by Analysis of cDNA Clones from Human Cell Line KG-1," <i>DNA Res.</i> 3:17-24, Kazusa DNA Research Institute and Universal Academy Press, Inc. (February 1996)
	AT	<u>42</u>	Nakayama, J., <i>et al.</i> , "Role of Histone H3 Lysine 9 Methylation in Epigenetic Control of Heterochromatin Assembly," <i>Science</i> 292:110-113, American Association for the Advancement of Science (April 2001)
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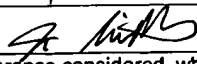
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	AR	43	Nasmyth, K., <i>et al.</i> , "Splitting the Chromosome: Cutting the Ties That Bind Sister Chromatids," <i>Science</i> 288:1379-1384, The American Association for the Advancement of Science (May 2000)				
	AS	43	Neuberger, M.S., <i>et al.</i> , "Recombinant antibodies possessing novel effector functions," <i>Nature</i> 312:604-608, Macmillan Magazines Ltd. (1984)				
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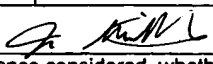
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	AR	44	O'Carroll, D., <i>et al.</i> , "Isolation and Characterization of <i>Suv39h2</i> , a Second Histone H3 Methyltransferase Gene That Displays Testis-Specific Expression," <i>Mol. Cell. Biol.</i> 20:9423-9433, American Society for Microbiology (December 2000)
	AS	44	Offenberg, H.H., <i>et al.</i> , "Tissue distribution of two major components of synaptonemal complexes of the rat," <i>Chromosoma</i> 101:83-91, Springer-Verlag (1991)
	AT	44	Orlando V., and Paro, R., "Mapping Polycomb-Repressed Domains in the Bithorax Complex Using In Vivo Formaldehyde Cross-Linked Chromatin," <i>Cell</i> 75:1187-1198, Cell Press (1993)

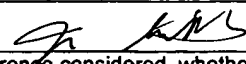
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	AR	45	Pandita, T.K., <i>et al.</i> , "Atm Inactivation Results in Aberrant Telomere Clustering during Meiotic Prophase," <i>Mol. Cell. Biol.</i> 19:5096-5105, American Society for Microbiology (July 1999)
	AS	45	Pardue, M.L. and Gall, J.G., "Chromosomal Localization of Mouse Satellite DNA," <i>Science</i> 168:1356-1358, American Association for the Advancement of Science (1970)
	AT	45	Park, I.K., <i>et al.</i> , "Interrelationship Between Nuclear Histone Binding and Cell Proliferation," <i>Int. J. Biochem.</i> 20:183-187, Pergamon Press (1988)

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	AR	<u>46</u>	Paro, R. and Harte, P.J., "The Role of Polycomb Group and Trithorax Group Chromatin Complexes in the Maintenance of Determined Cell States," in <i>Epigenetic Mechanisms of Gene Regulation</i> , Russo, V.E.A., <i>et al.</i> , eds., Cold Spring Harbor Laboratory Press, Plainview, N.Y., pp. 507-528 (December 1996)
	AS	<u>46</u>	Paro, R. and Hogness, D.S. "The Polycomb protein shares a homologous domain with a heterochromatin-associated protein of <i>Drosophila</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 88:263-267, National Academy of Sciences (1991)
	AT	<u>46</u>	Pehrson, J.R. and Fried, V.A., "MacroH2A, a Core Histone Containing a Large Nonhistone Region," <i>Science</i> 257:1398-1400, American Association for the Advancement of Science (1992)

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	AR	47	Peters, A.H.F.M., <i>et al.</i> , "A drying-down technique for the spreading of mammalian meiocytes from the male and female germline," <i>Chromosome Res.</i> 5:66-68, Rapid Science Publishers (February 1997)				
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	AT	47	Peters, J. -M., "SCF and APC: the Yin and Yang of cell cycle regulated proteolysis," <i>Curr. Opin. Cell Biol.</i> 10:759-768, Current Biology Ltd. (December 1998)				

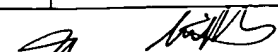
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	FIRST NAMED INVENTOR Jenuwein <i>et al.</i>	
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	48	Platero, J.S., <i>et al.</i> , "Functional analysis of the chromo domain HP1," <i>EMBO J.</i> 14:3977-3986, Oxford University Press (August 1995)
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	AR	49	Reuter G., and Spierer, P., "Position Effect Variegation and Chromatin Proteins," <i>BioEssays</i> 14:605-612, The Company of Biologists, Ltd. (1992)
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	AR	<u>50</u>	Rieder, C.L. and Salmon, E.D., "The vertebrate cell kinetochore and its roles during mitosis," <i>Trends in Cell Biol.</i> 8:310-318, Elsevier Science Ltd. (August 1998)
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	AT	<u>50</u>	Sassone-Corsi, P., <i>et al.</i> , "Requirement for Rsk-2 for Epidermal Growth Factor-Activated Phosphorylation of Histone H3," <i>Science</i> 285:886-891, American Association for the Advancement of Science (August 1999)

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	AR	51	Scherthan, H., <i>et al.</i> , "Centromere and Telomere Movements during Early Meiotic Prophase of Mouse and Man are Associated with the Onset of Chromosome Pairing," <i>J. Cell Biol.</i> 134:1109-1125, The Rockefeller University Press (September 1996)
	AS	51	Schotta, G. and Reuter, G., "Controlled expression of tagged proteins in <i>Drosophila</i> using a new modular P-element vector system," <i>Mol. Gen. Genet.</i> 262:916-920, Springer-Verlag (January 2000)
	AT	51	Singh, J., <i>et al.</i> , "Lead Development: Validation and Application of High Throughput Screening for Determination of Pharmacokinetic Parameters for Enzyme Inhibitors," <i>Bioorg. Med. Chem.</i> 4:639-643, Pergamon Press (May 1996)

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	AR	52	Smouse, D. and Perrimon, N., "Genetic Dissection of a Complex Neurological Mutant, <i>polyhomeotic</i> , in <i>Drosophila</i> ," <i>Dev. Biol.</i> 139 :169-185, Academic Press (1990)
	AS	52	Solari, A.J. "The Behavior of the XY Pair in Mammals," <i>Int. Rev. Cytol.</i> 38:273-317, Academic Press, Inc. (1974)
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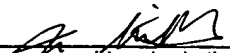
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	AR	<u>53</u>	Stebbins, J. and Debouck, C., "A Microtiter Colorimetric Assay for the HIV-1 Protease," <i>Anal. Biochem.</i> 248:246-250, Academic Press (June 1997)
	AS	<u>53</u>	Strahl, B.D. and Allis, C.D., "The language of covalent histone modifications," <i>Nature</i> 403:41-45, Nature Publishing Group (January 2000)
	AT	<u>53</u>	Strahl, B.D., <i>et al.</i> , "Methylation of histone H3 at lysine 4 is highly conserved and correlates with transcriptionally active nuclei in <i>Tetrahymena</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 96:14967-14972, National Academy of Sciences (December 1999)


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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>54</u>	Sullivan, K.F., <i>et al.</i> , "Human CENP-A Contains a Histone H3 Related Histone Fold Domain That Is Required for Targeting to the Centromere," <i>J. Cell Biol.</i> 127:581-592, The Rockefeller University Press (1994)
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	AT	<u>54</u>	Taliani, M., <i>et al.</i> , "A Continuous Assay of Hepatitis C Virus Protease Based on Resonance Energy Transfer Dipeptide Substrates," <i>Anal. Biochem.</i> 240:60-67, Academic Press (August 1996)

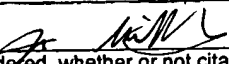
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	AR	<u>55</u>	Tkachuk, D.C., <i>et al.</i> , "Involvement of a Homolog of Drosophila Trithorax by 11q23 Chromosomal Translocations in Acute Leukemias," <i>Cell</i> 71:691-700, Cell Press (1992)				
	AS	<u>55</u>	Tschiersch, B., <i>et al.</i> , "The protein encoded by the <i>Drosophila</i> position-effect variegation suppressor gene <i>Su(var)3-9</i> combines domains of antagonistic regulators of homeotic gene complexes," <i>EMBO J.</i> 13:3822-3831, Oxford University Press (August 1994)				
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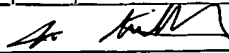
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	AR	56	Turner, J.M.A., <i>et al.</i> , "Analysis of male meiotic "sex body" proteins during XY female meiosis provides new insights into their functions," <i>Chromosoma</i> 109:426-432, Springer-Verlag (August 2000)				
	AS	56	Uhlmann, F. and Nasmyth, K., "Cohesion between sister chromatids must be established during DNA replication," <i>Curr. Biol.</i> 8:1095-1101, Current Biology Ltd. (September 1998)				
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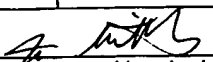
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	AR	57	Uhlmann, F., <i>et al.</i> , "Cleavage of Cohesin by the CD Clan Protease Separin Triggers Anaphase in Yeast," <i>Cell</i> 103:375-386, Cell Press (October 2000)
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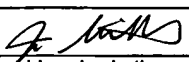
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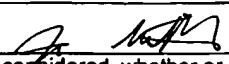
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	AR	<u>58</u>	Wallrath, L.L., "Unfolding the mysteries of heterochromatin," <i>Curr. Opin. Genet. Dev.</i> 8:147-153, Current Biology Ltd. (April 1998)
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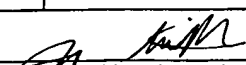
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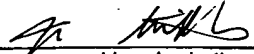
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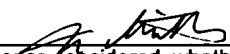
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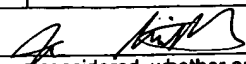
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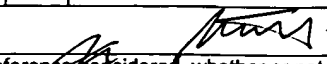
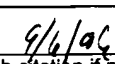


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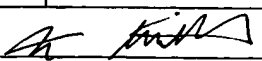
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